

# Erwin Berthier

## List of Publications by Year in descending order

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Version: 2024-02-01

56  
papers

2,922  
citations

201385

27  
h-index

182168

51  
g-index

83  
all docs

83  
docs citations

83  
times ranked

3867  
citing authors

#	ARTICLE	IF	CITATIONS
1	Engineers are from PDMS-land, Biologists are from Polystyrenia. Lab on A Chip, 2012, 12, 1224.	3.1	769
2	Flow rate analysis of a surface tension driven passive micropump. Lab on A Chip, 2007, 7, 1475.	3.1	167
3	Suspended microfluidics. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 10111-10116.	3.3	156
4	Rapid Prototyping of Arrayed Microfluidic Systems in Polystyrene for Cell-Based Assays. Analytical Chemistry, 2011, 83, 1408-1417.	3.2	148
5	Managing evaporation for more robust microscale assays : Part 1. Volume loss in high throughput assays. Lab on A Chip, 2008, 8, 852.	3.1	105
6	Open Microfluidic Capillary Systems. Analytical Chemistry, 2019, 91, 8739-8750.	3.2	87
7	Microbial metabolomics in open microscale platforms. Nature Communications, 2016, 7, 10610.	5.8	86
8	Microfluidic kit-on-a-lid: a versatile platform for neutrophil chemotaxis assays. Blood, 2012, 120, e45-e53.	0.6	83
9	Microbial volatile communication in human organotypic lung models. Nature Communications, 2017, 8, 1770.	5.8	78
10	Low-Volume Toolbox for the Discovery of Immunosuppressive Fungal Secondary Metabolites. PLoS Pathogens, 2013, 9, e1003289.	2.1	73
11	Fundamentals of rapid injection molding for microfluidic cell-based assays. Lab on A Chip, 2018, 18, 496-504.	3.1	70
12	Reconfigurable open microfluidics for studying the spatiotemporal dynamics of paracrine signalling. Nature Biomedical Engineering, 2019, 3, 830-841.	11.6	68
13	Characterizing asthma from a drop of blood using neutrophil chemotaxis. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 5813-5818.	3.3	64
14	An arrayed high-content chemotaxis assay for patient diagnosis. Integrative Biology (United Kingdom), 2010, 2, 630-638.	0.6	58
15	A general condition for spontaneous capillary flow in uniform cross-section microchannels. Microfluidics and Nanofluidics, 2014, 16, 779-785.	1.0	49
16	Hax1 regulates neutrophil adhesion and motility through RhoA. Journal of Cell Biology, 2011, 193, 465-473.	2.3	46
17	Managing evaporation for more robust microscale assays : Part 2. Characterization of convection and diffusion for cell biology. Lab on A Chip, 2008, 8, 860.	3.1	43
18	Assessment of Enhanced Autofluorescence and Impact on Cell Microscopy for Microfabricated Thermoplastic Devices. Analytical Chemistry, 2013, 85, 44-49.	3.2	41

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19	Upgrading well plates using open microfluidic patterning. <i>Lab on A Chip</i> , 2017, 17, 4253-4264.	3.1	41
20	The Actin Regulatory Protein HS1 Interacts with Arp2/3 and Mediates Efficient Neutrophil Chemotaxis. <i>Journal of Biological Chemistry</i> , 2012, 287, 25466-25477.	1.6	38
21	RsmA Regulates <i>Aspergillus fumigatus</i> Gliotoxin Cluster Metabolites Including Cyclo(L-Phe-L-Ser), a Potential New Diagnostic Marker for Invasive Aspergillosis. <i>PLoS ONE</i> , 2013, 8, e62591.	1.1	38
22	Fungal oxylipins direct programmed developmental switches in filamentous fungi. <i>Nature Communications</i> , 2020, 11, 5158.	5.8	37
23	Layer-by-layer fabrication of 3D hydrogel structures using open microfluidics. <i>Lab on A Chip</i> , 2020, 20, 525-536.	3.1	34
24	Bead-based microfluidic toxin sensor integrating evaporative signal amplification. <i>Lab on A Chip</i> , 2008, 8, 1793.	3.1	33
25	Integrin associated proteins differentially regulate neutrophil polarity and directed migration in 2D and 3D. <i>Biomedical Microdevices</i> , 2015, 17, 100.	1.4	33
26	Investigating Fibroblast-Induced Collagen Gel Contraction Using a Dynamic Microscale Platform. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 196.	2.0	33
27	Pipette-friendly laminar flow patterning for cell-based assays. <i>Lab on A Chip</i> , 2011, 11, 2060.	3.1	29
28	Droplet incubation and splitting in open microfluidic channels. <i>Analytical Methods</i> , 2019, 11, 4528-4536.	1.3	27
29	Backward flow in a surface tension driven micropump. <i>Journal of Micromechanics and Microengineering</i> , 2008, 18, 087002.	1.5	26
30	An automated microdroplet passive pumping platform for high-speed and packeted microfluidic flow applications. <i>Lab on A Chip</i> , 2010, 10, 23-26.	3.1	25
31	Kit-On-A-Lid-Assays for accessible self-contained cell assays. <i>Lab on A Chip</i> , 2013, 13, 424-431.	3.1	23
32	An inertia enhanced passive pumping mechanism for fluid flow in microfluidic devices. <i>Lab on A Chip</i> , 2012, 12, 2221.	3.1	21
33	Induced hydrophobic recovery of oxygen plasma-treated surfaces. <i>Lab on A Chip</i> , 2012, 12, 2317.	3.1	20
34	A Golgi-Localized Pool of the Mitotic Checkpoint Component Mad1 Controls Integrin Secretion and Cell Migration. <i>Current Biology</i> , 2014, 24, 2687-2692.	1.8	20
35	Clinical application of volumetric absorptive microsampling to the gefapixant development program. <i>Bioanalysis</i> , 2020, 12, 893-904.	0.6	20
36	Metastable capillary filaments in rectangular cross-section open microchannels. <i>AIMS Biophysics</i> , 2014, 1, 31-48.	0.3	20

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37	Droplet Behavior in Open Biphasic Microfluidics. <i>Langmuir</i> , 2018, 34, 5358-5366.	1.6	18
38	Human iNKT Cells Promote Protective Inflammation by Inducing Oscillating Purinergic Signaling in Monocyte-Derived DCs. <i>Cell Reports</i> , 2016, 16, 3273-3285.	2.9	17
39	Capillary Flow in Open Microgrooves: Bifurcations and Networks. <i>Langmuir</i> , 2019, 35, 10667-10675.	1.6	17
40	Open-Channel Capillary Trees and Capillary Pumping. <i>Langmuir</i> , 2020, 36, 12795-12803.	1.6	15
41	High-Density Self-Contained Microfluidic KOALA Kits for Use by Everyone. <i>Journal of the Association for Laboratory Automation</i> , 2015, 20, 146-153.	2.8	11
42	<i>home</i>RNA: A Self-Sampling Kit for the Collection of Peripheral Blood and Stabilization of RNA. <i>Analytical Chemistry</i> , 2021, 93, 13196-13203.	3.2	11
43	User-defined morphogen patterning for directing human cell fate stratification. <i>Scientific Reports</i> , 2019, 9, 6433.	1.6	10
44	Open microfluidic coculture reveals paracrine signaling from human kidney epithelial cells promotes kidney specificity of endothelial cells. <i>American Journal of Physiology - Renal Physiology</i> , 2020, 319, F41-F51.	1.3	8
45	Fluorescence-Based Assessment of Plasma-Induced Hydrophilicity in Microfluidic Devices via Nile Red Adsorption and Depletion. <i>Analytical Chemistry</i> , 2014, 86, 7258-7263.	3.2	6
46	Multikingdom microscale models. <i>PLoS Pathogens</i> , 2017, 13, e1006424.	2.1	6
47	Stable biphasic interfaces for open microfluidic platforms. <i>Biomedical Microdevices</i> , 2019, 21, 16.	1.4	6
48	A Microfluidic Assay for Identifying Differential Responses of Plant and Human Fungal Pathogens to Tobacco Phylloplanins. <i>Plant Health Progress</i> , 2014, 15, 130-134.	0.8	4
49	Miniaturizing Wet Scrubbers for Aerosolized Droplet Capture. <i>Analytical Chemistry</i> , 2021, 93, 11433-11441.	3.2	3
50	High Speed Droplet-based Delivery System for Passive Pumping in Microfluidic Devices. <i>Journal of Visualized Experiments</i> , 2009, , .	0.2	1
51	Spatial presentation of biological molecules to cells by localized diffusive transfer. <i>Lab on A Chip</i> , 2019, 19, 2114-2126.	3.1	1
52	Localized Cell-Surface Sampling of a Secreted Factor Using Cell-Targeting Beads. <i>Analytical Chemistry</i> , 2020, 92, 13634-13640.	3.2	1
53	Spontaneous Capillary Flow Between Horizontal Rails. , 2016, , 207-228.		0
54	Hax1 regulates neutrophil adhesion and motility through RhoA. <i>Journal of Experimental Medicine</i> , 2011, 208, i14-i14.	4.2	0

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55	Microbe-Independent Entry of Oomycete RxLR Effectors and Fungal RxLR-Like Effectors Into Plant and Animal Cells Is Specific and Reproducible. <i>Molecular Plant-Microbe Interactions</i> , 2015, 2015, 51-56.	1.4	0
56	Localized Cell-Surface Sampling of a Secreted Factor Using Cell-Targeting Beads. <i>Analytical Chemistry</i> , 2020, 92, 13634-13640.	3.2	0